

FIG. 1

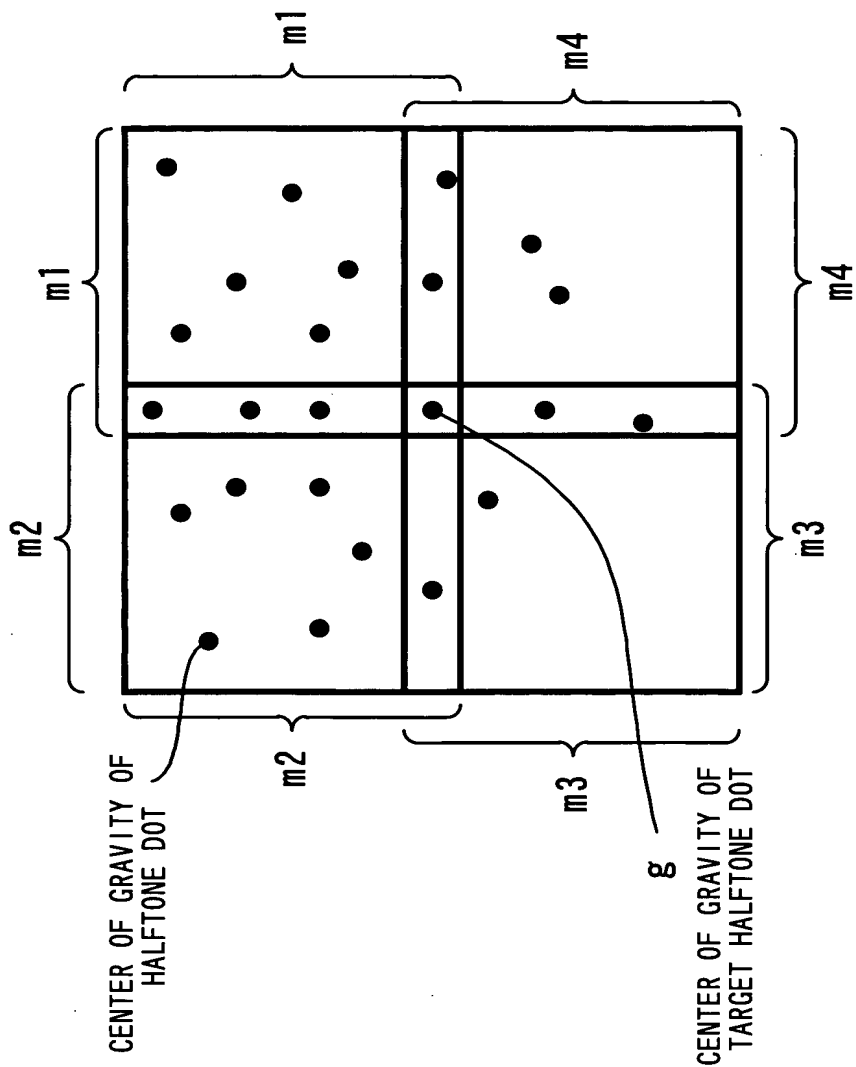


FIG. 2

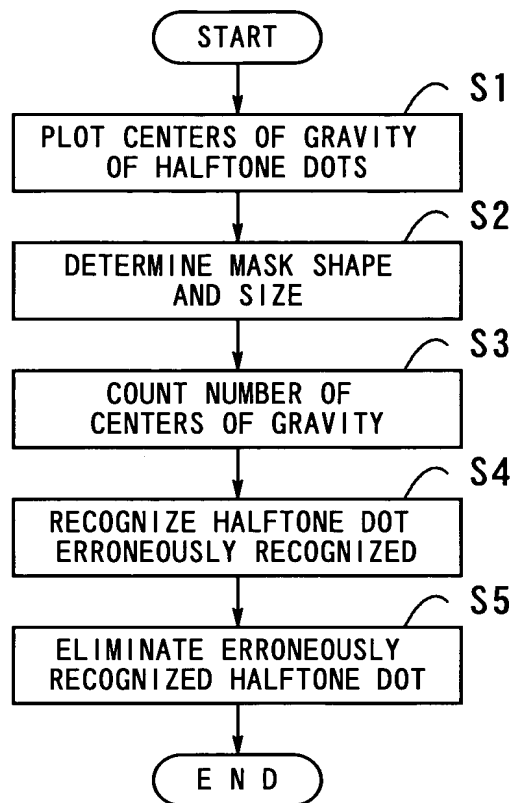


FIG. 3

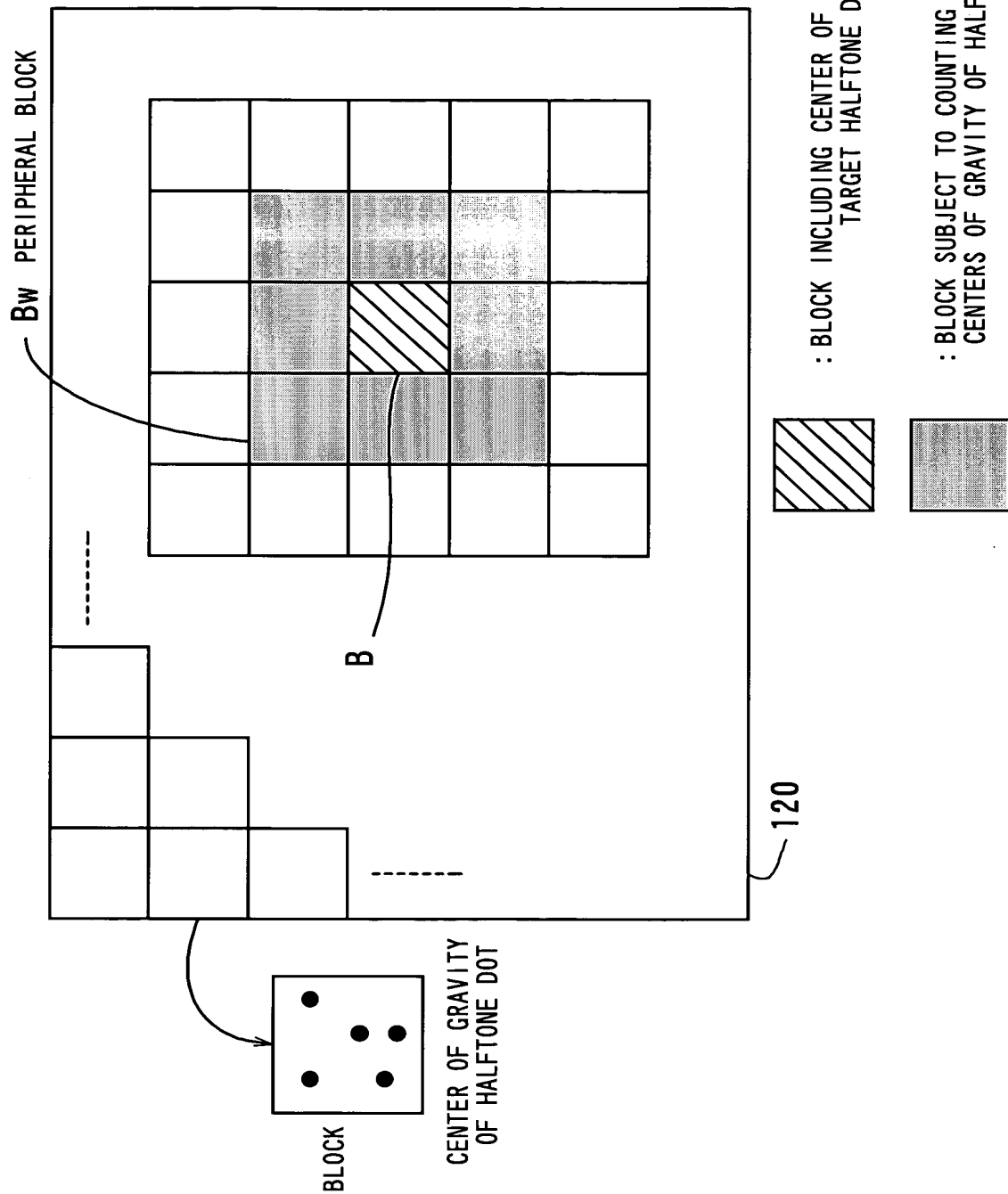


FIG. 4

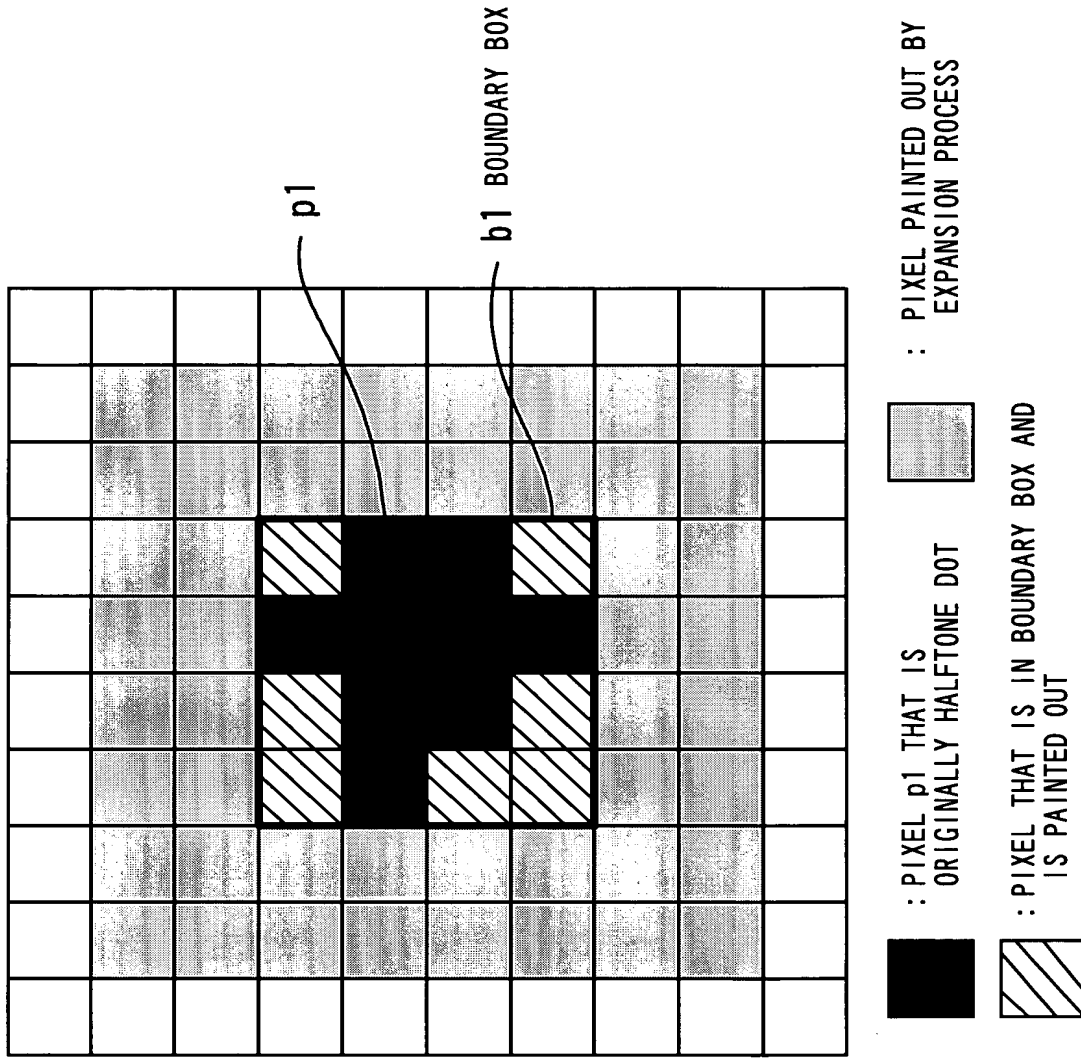
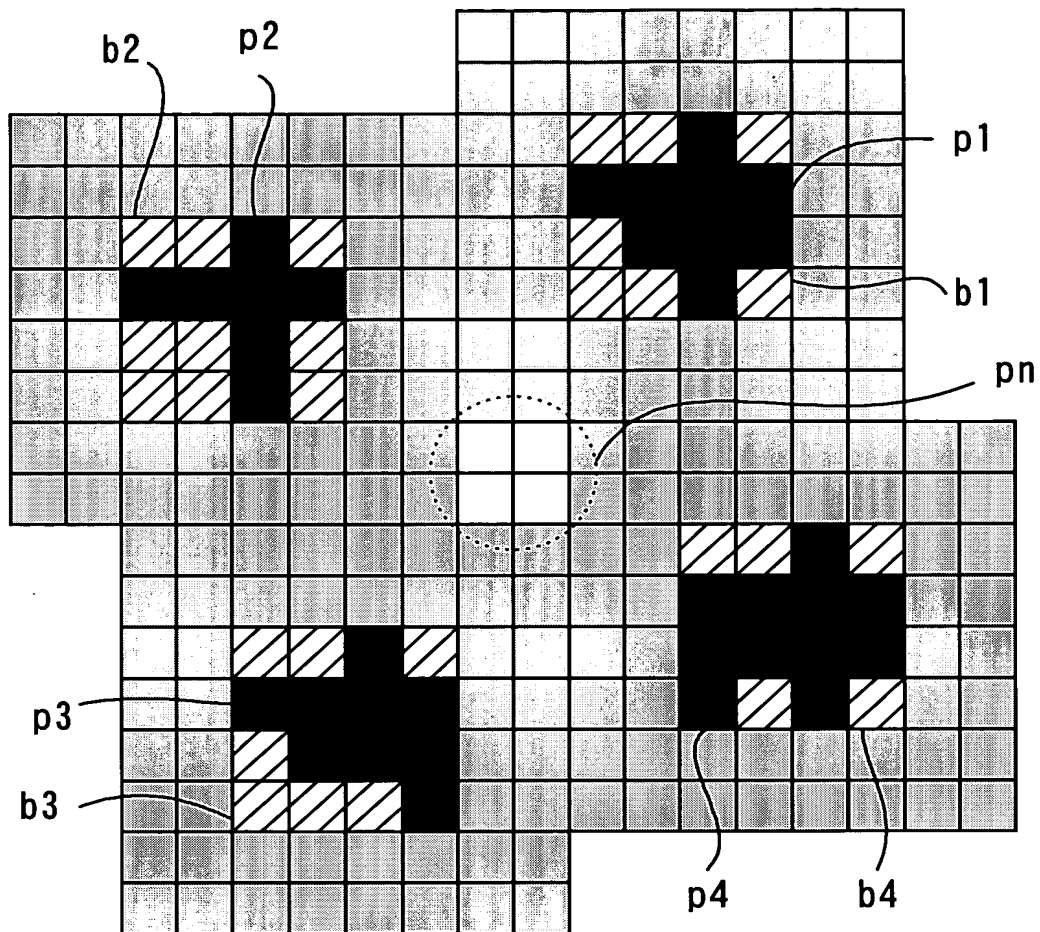


FIG. 5



- : PIXEL p1 THAT IS ORIGINALLY HALFTONE DOT
- : PIXEL PAINTED OUT BY EXPANSION PROCESS
- : PIXEL THAT IS IN BOUNDARY BOX AND IS PAINTED OUT

FIG. 6

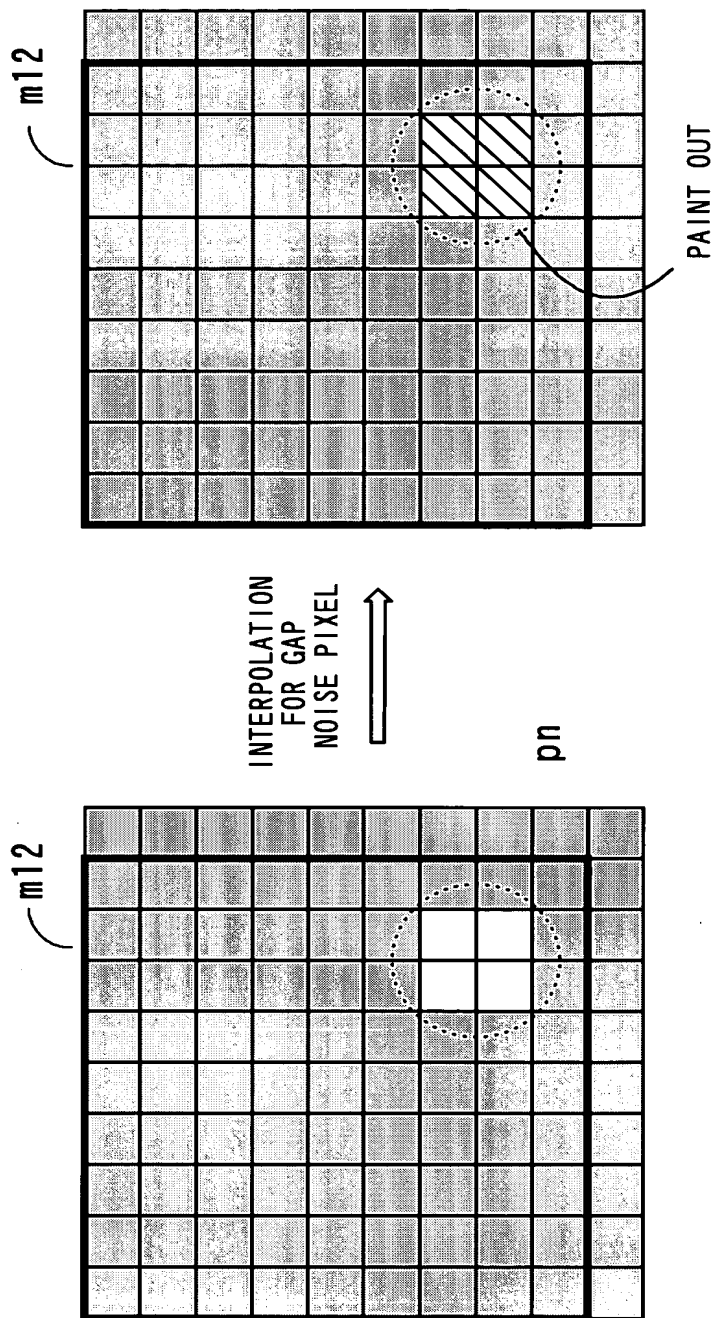


FIG. 7

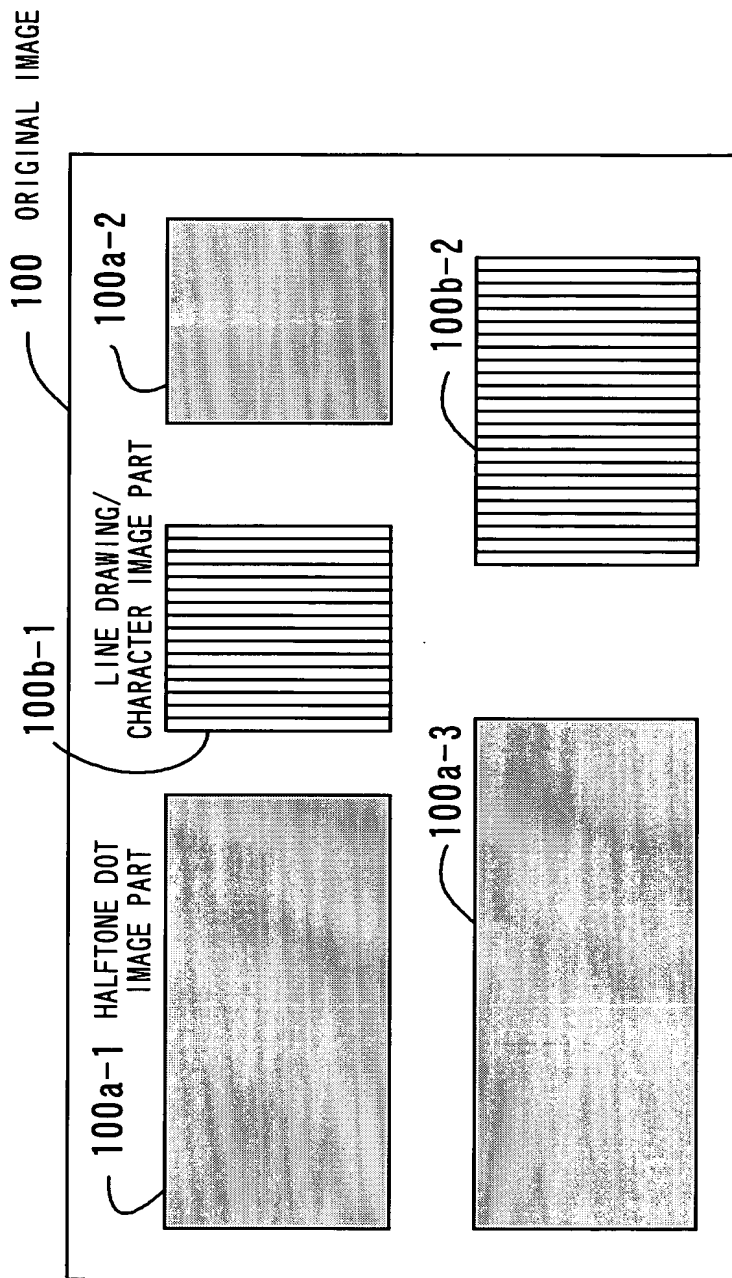


FIG. 8

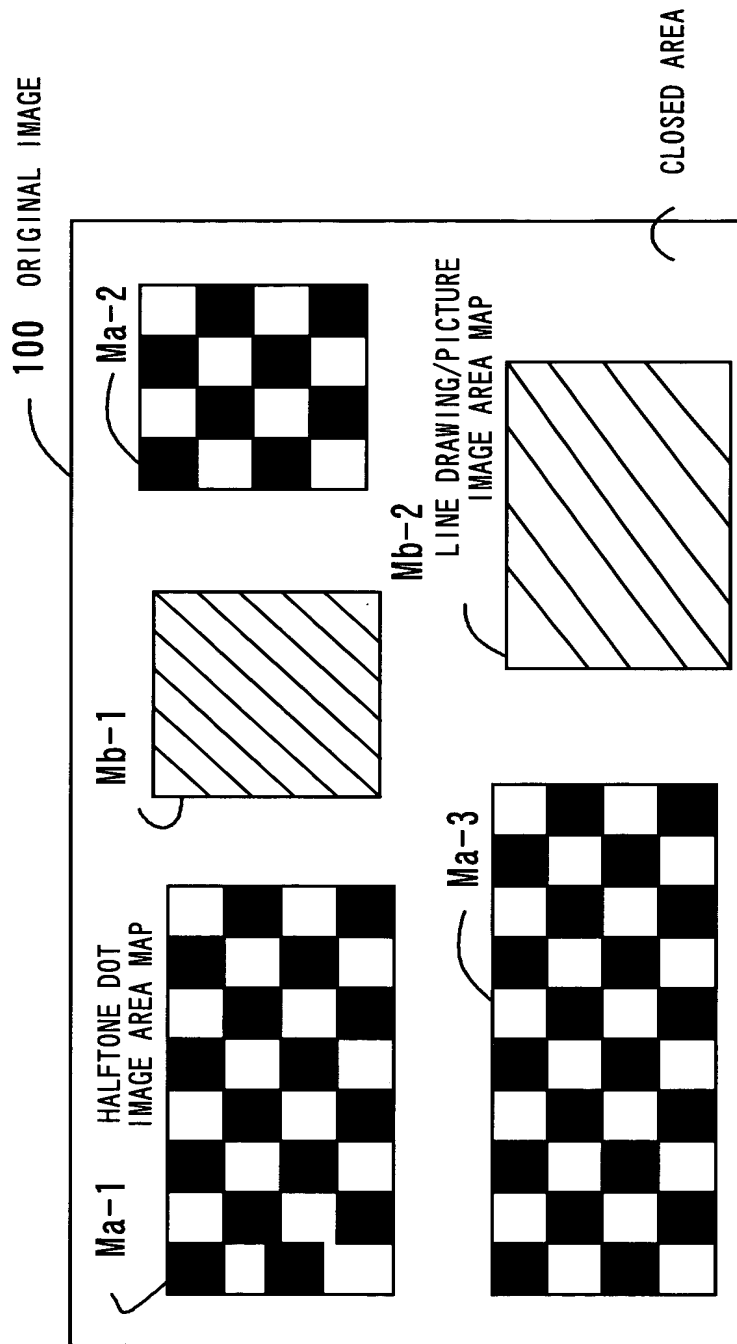


FIG. 9

FIG. 10 is a schematic diagram of a halftone dot image area.

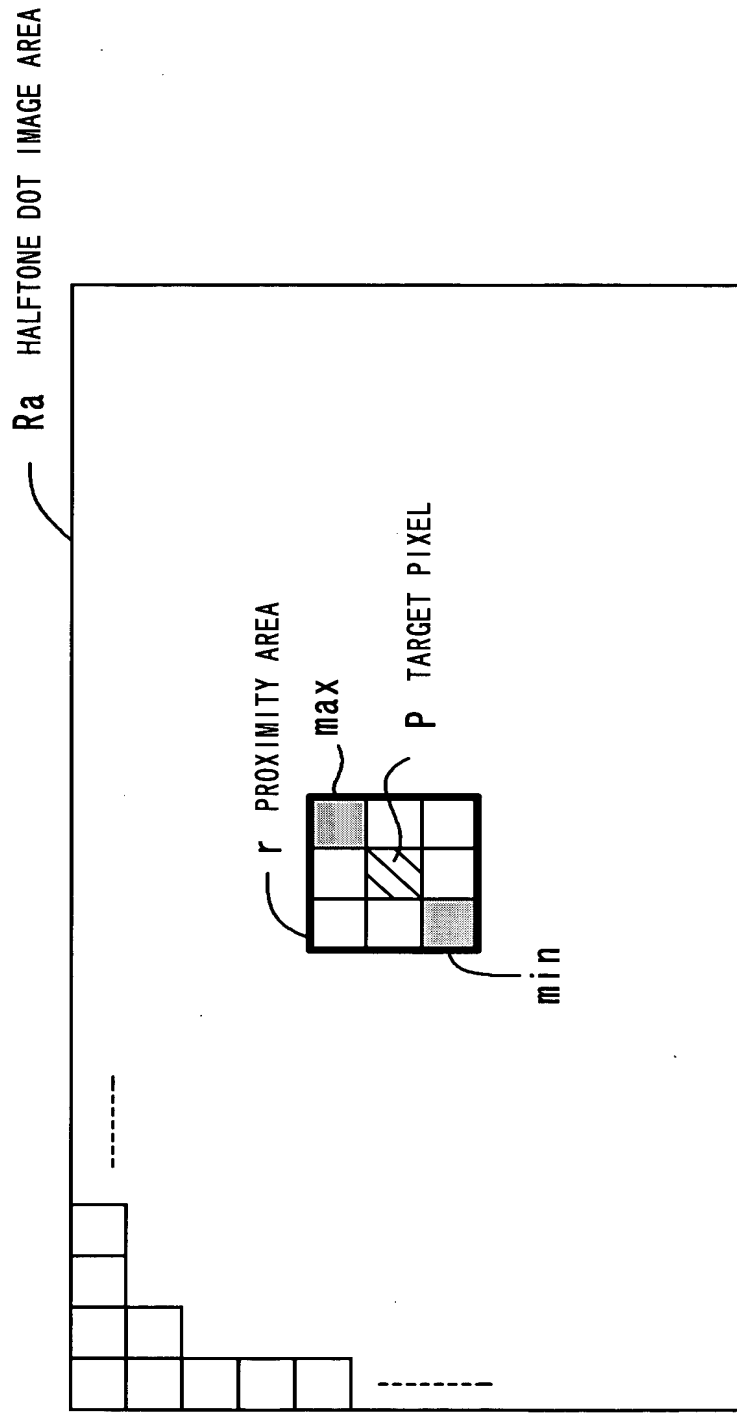


FIG. 10

r1 PROXIMITY AREA

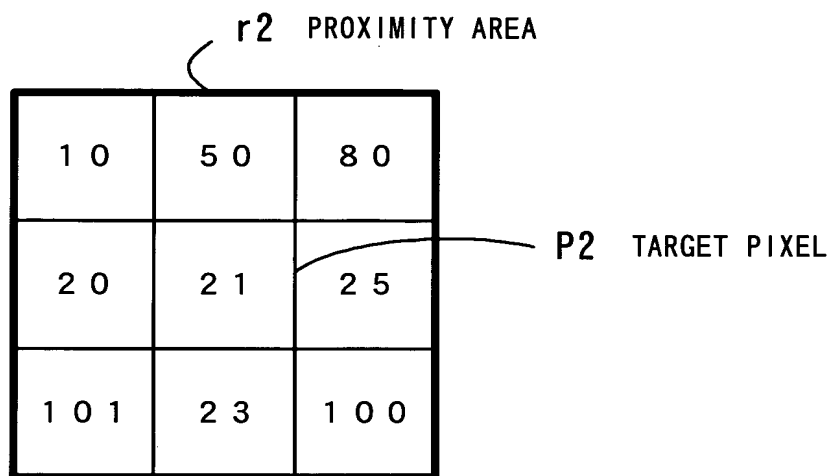
| | | |
|-------|-------|-------|
| 1 0 0 | 5 0 | 8 0 |
| 2 0 0 | 2 0 1 | 2 0 5 |
| 2 1 0 | 2 3 0 | 1 0 0 |

P1 TARGET PIXEL

CHANGED PIXEL VALUE $P_a = 230$ (MAXIMUM PIXEL VALUE
AVAILABLE IN PROXIMITY AREA) * α

$$0.0 < \alpha \leq 1.0$$

FIG. 11



CHANGED PIXEL VALUE $P_b = 230 (\text{MINIMUM PIXEL VALUE AVAILABLE IN PROXIMITY AREA}) * \beta$

$$1. \quad 0 \leq \beta$$

FIG. 12

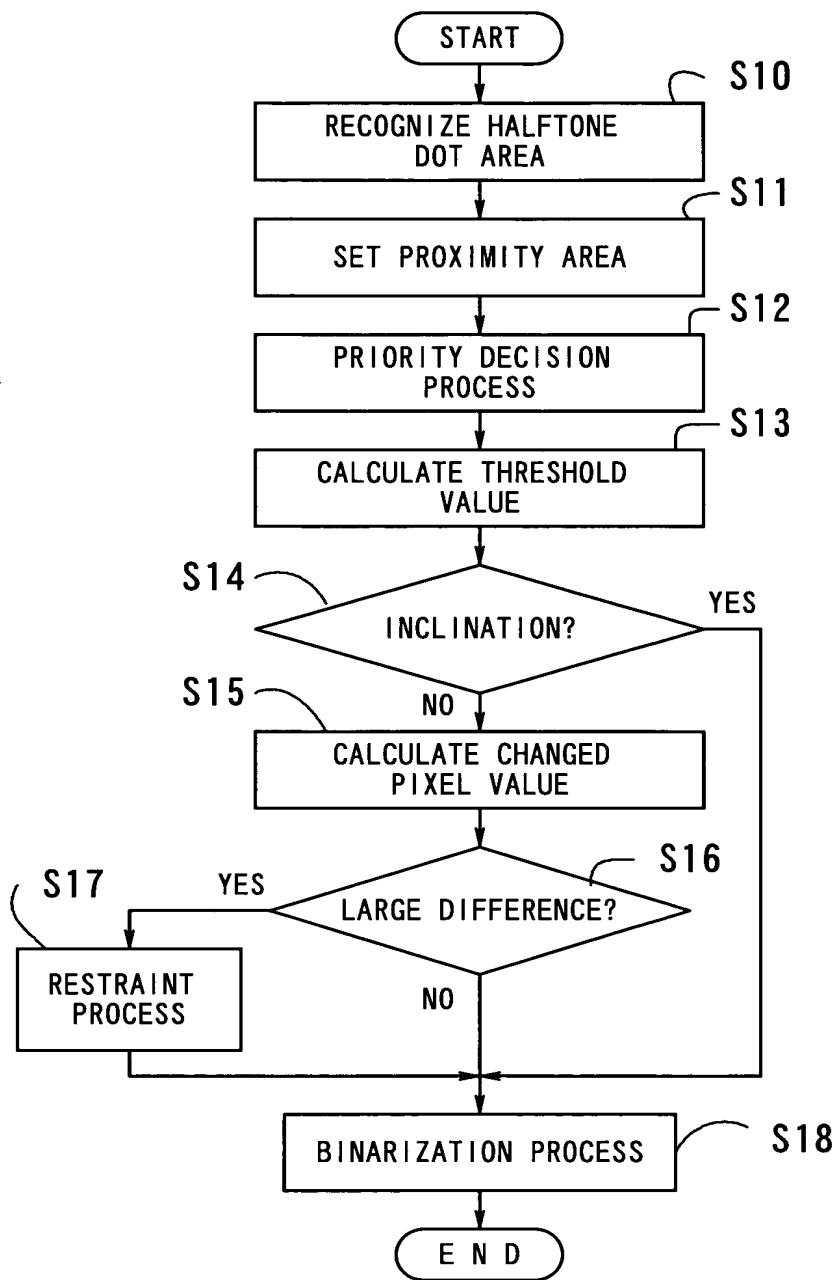


FIG. 13

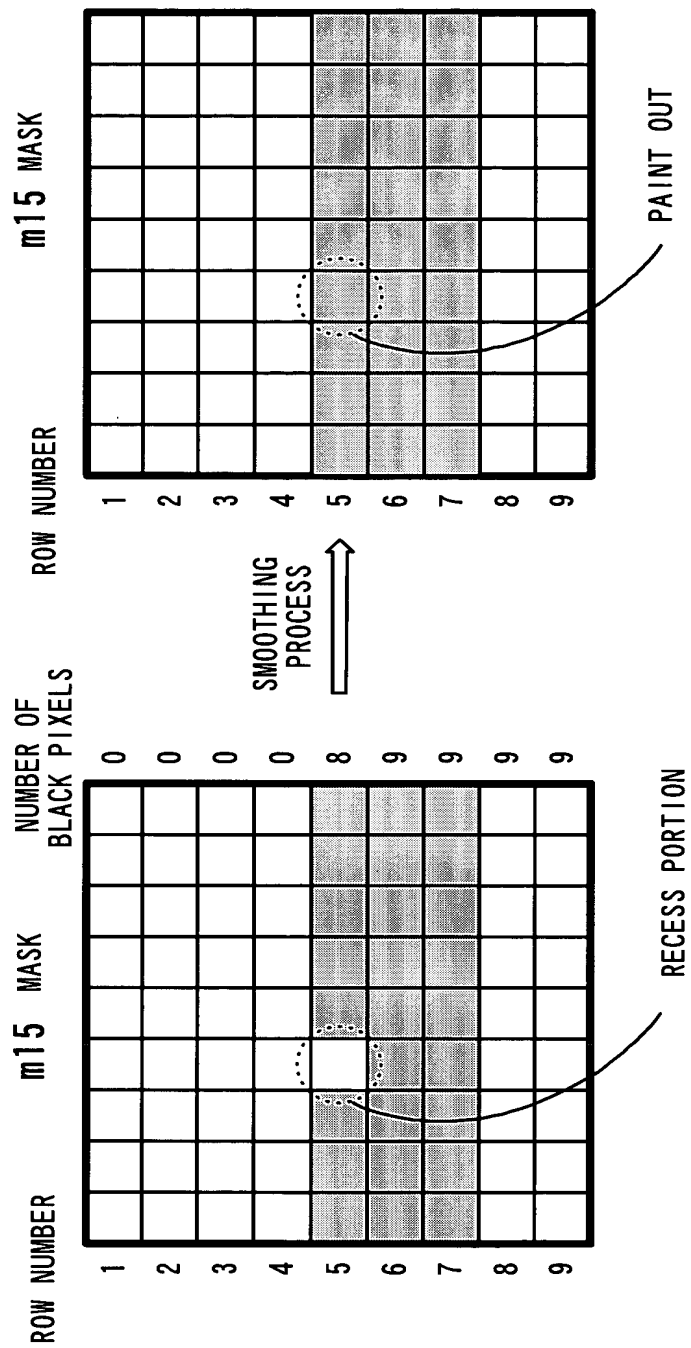


FIG. 14

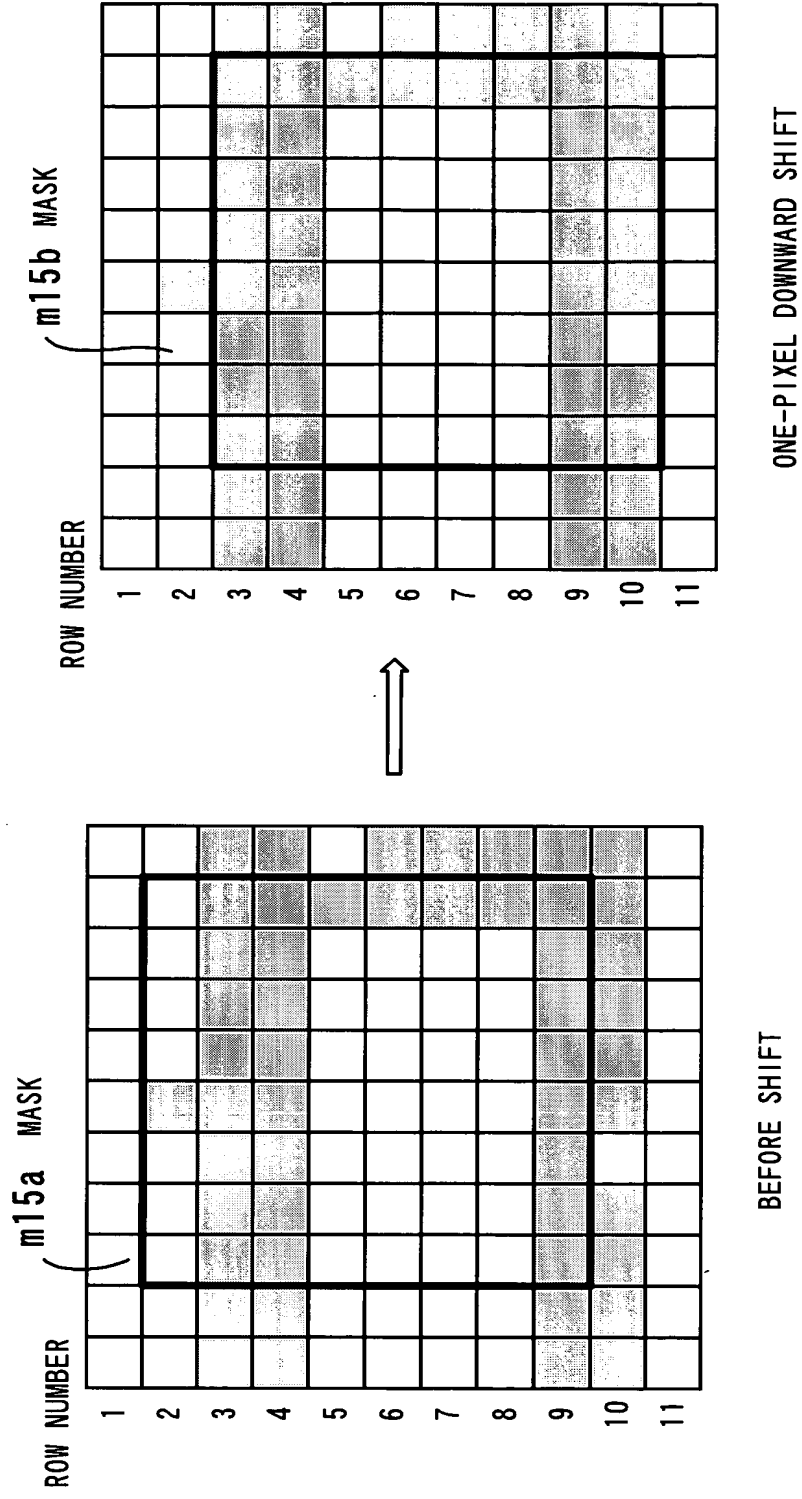


FIG. 15

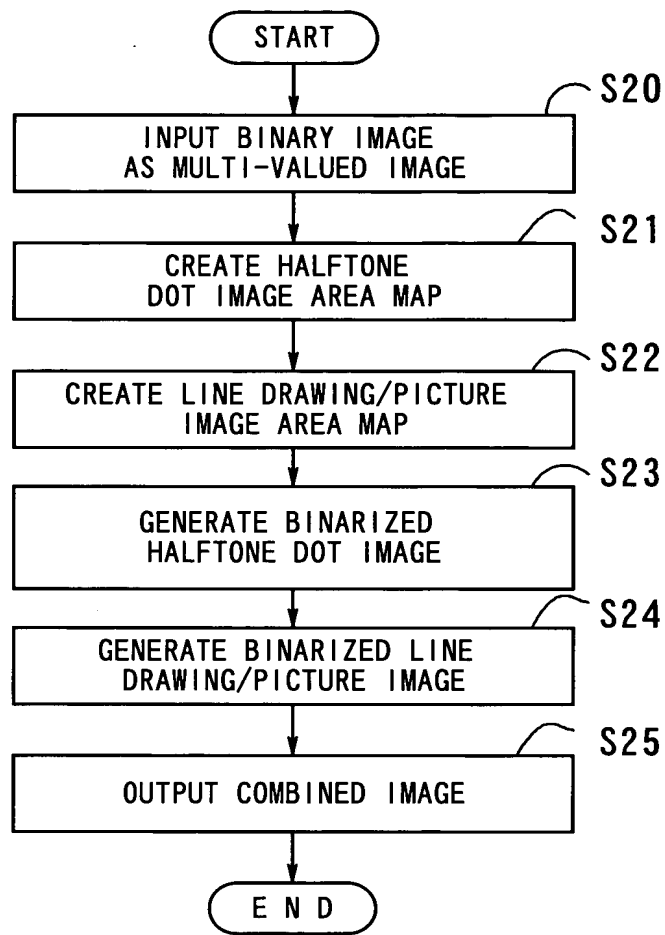


FIG. 16